18. Elucidate the use of the tabular environment in LaTeX, discussing column alignment, spacing, and handling multi-line cells.

19. Demonstrate black boxes and invisible lines in LaTeX, detailing the commands used and their effects on formatting.

20. Explain the process of generating footnotes, footnotes in tabular material and customizing footnotes into a LaTeX document and its style parameters.

NOVEMBER/DECEMBER 2024

23PSMA26B — MATHEMATICAL DOCUMENTATION USING LATEX OTHER PACKAGES (SEC I)

Time : Three hours Maximum : 75 marks

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SECTION A — (10 × 2 = 20 marks)

Answer ALL questions.

1. What command is used to define the format of page numbers?

2. Write down the commands which offers to set up a glossary with a short explanation.

3. What does the term "environment" mean in the context of LaTeX? Write the general form of an environment.

4. Illustrate any five styles to type set mathematics with examples for each style.

5. How box is treated in LaTeX and what are the types of boxes?

6. Compose the syntax for including graphics in a LaTeX document and outline the options accessible within the command.

7. Examine the convenient way for the reader to provide the page number of the reference when making a reference to a table or an equation.

8. Outline any four BIBTEX styles with a brief explanation.

9. Discuss the command\newcommand with an appropriate example.

10. Recall the style parameters for marginal notes.

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions.

11. (a) Explain Text Positioning with the help of an example.

Or

(b) Summarize the features of page style in LaTeX deocument.

12. (a) Explain the ways of creating lists in LaTeX with appropriate examples.

Or

(b) How to typeset a multiple table of contents in a LaTeX document?

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13. (a) Demonstrate the usage of commands like \=, \>, and *\kill in* tabbing environment with examples.

Or

(b) How can the *amsthm* package in LaTeX customize the theorem environment?

14. (a) Discuss how the frames of any length can be created in LaTeX.

Or

(b) Elucidate the advantages provided *byvarioref package* for enhanced cross-referencing in LaTeX documents.

15. (a) Identify all the behavior of command \vrefwhen used in the document class article and document class book.

Or

(b) How is the footnote for the document is included in LaTeX for better enhancement of the document?

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the step by step procedure to create the bibliographic database.

17. Discuss the various methods and commands used for displaying index in LaTex.